

United States Patent and Trademark Office



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

PPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/719,196	1	1/20/2003	James R. Millis	3161-25-2	3652
22442	7590	09/23/2005		EXAMINER	
SHERIDA		PC .	WALICKA, MALGORZATA A		
1560 BROA SUITE 1200				ART UNIT	PAPER NUMBER
DENVER, CO 80202				1652	

DATE MAILED: 09/23/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

·	Application No.	Applicant(s)	
Office Action Occurred	10/719,196	MILLIS ET AL.	
Office Action Summary	Examiner	Art Unit	
	Malgorzata A. Walicka	1652	
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet	with the correspondence add	ress
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN 1.136(a). In no event, however, may d will apply and will expire SIX (6) Mo te, cause the application to become	IICATION. a reply be timely filed ONTHS from the mailing date of this com ABANDONED (35 U.S.C. § 133)	
Status			
1) Responsive to communication(s) filed on	·		
	nis action is non-final.		
3) Since this application is in condition for allow	ance except for formal ma	atters, prosecution as to the r	merits is
closed in accordance with the practice under			
Disposition of Claims		·	
4)⊠ Claim(s) <u>18-53</u> is/are pending in the applicat	ion		
4a) Of the above claim(s) is/are withdr		•	
5)☐ Claim(s) is/are allowed.			
6)☐ Claim(s) is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) 18-53 are subject to restriction and/	or election requirement.		
Application Papers			
9) The specification is objected to by the Exami	ner.		
10)☐ The drawing(s) filed on is/are: a)☐ ad		by the Examiner	
Applicant may not request that any objection to th			
Replacement drawing sheet(s) including the corre			R 1.121(d).
11)☐ The oath or declaration is objected to by the I			
Priority under 35 U.S.C. § 119			
12)☐ Acknowledgment is made of a claim for foreig	in priority under 35 U.S.C.	8 119(a)-(d) or (f)	
a) ☐ All b) ☐ Some * c) ☐ None of:	, p.1.01.1.) a.1.401 00 0,0,0.	3 110(4) (4) 01 (1).	
1.☐ Certified copies of the priority docume	nts have been received.		
2. Certified copies of the priority docume		Application No.	
3.☐ Copies of the certified copies of the pri			tage
application from the International Bure			90
* See the attached detailed Office action for a lis	st of the certified copies no	t received.	
	·		
·			
Attachment(s)		•	
1) Notice of References Cited (PTO-892)	4) 🔲 Interview	Summary (PTO-413)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No	(s)/Mail Date	
Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	3) 5)	Informal Patent Application (PTO-1	52)
J.S. Patent and Trademark Office	Action Summary	Part of Paper No./Mail Da	ate 091905

Art Unit: 1652

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claim 18 in part, claim 19, and claims 21-26 all in part, and 28-34 all in part, drawn to a
 method for production of geranylgeranyl pyrophosphate, classified in class 435, subclass
 158.
- II. Claim 18 in part, claim 20, claim 27, claims 21-26 all in part, claims 28-34 all in part, drawn to a method for production of farnesol, classified in class 435, subclass 155.
- III. Claim 35-53, drawn to a method for production of geranylgeraniol, classified in class 435, subclass 155.

The inventions are distinct, each from the other because:

Inventions of group I-III are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the invention of group I, II, and III are related to the production of three different chemicals, geranylgeranyl pyrophosphate, farnesol and geranylgeraniol, by a specifically engineered microorganism. In group I the microorganism is engineered to have increased the activity of an enzyme named geranylgeranyl pyrophosphate synthase. In group II the microorganism is engineered to have increased the activity of an enzyme named pharnesol pyrophosphate phosphatase. In group III the microorganism is engineered to have increased the activity of an enzyme named geranylgeranyl pyrophosphate phosphatase. The disclosed methods have different modes of operation and different effect and are therefore different.

Inventions I-III are distinct for the reasons given above and have acquired a separate status in the art. Because of their recognized divergent subject matter and/or different classification, restriction for examination purposes as indicated is proper.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of

Application/Control Number: 10/719,196

Art Unit: 1652

inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37

CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should

be directed to Malgorzata A. Walicka whose telephone number is (571) 272-0944. The examiner can

normally be reached on Monday-Friday from 10:00 a.m. to 4:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Ponnathapura Achutamurthy, can be reached on (571) 272-0928. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application

Information Retrieval (PAIR) system. Status information for published applications may be obtained from

either Private PAIR or Public PAIR. Status information for unpublished applications is available through

Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC)

at 866-217-9197 (toll-free).

Malgorzata A. Walicka, Ph.D.

Art Unit 1652

Patent Examiner

PONNATHAPU ACHUTAMURTHY
SUPERVISORY PATENT EXAMINER

Page 3

TECHTYCLOGY DYSTARD 1800